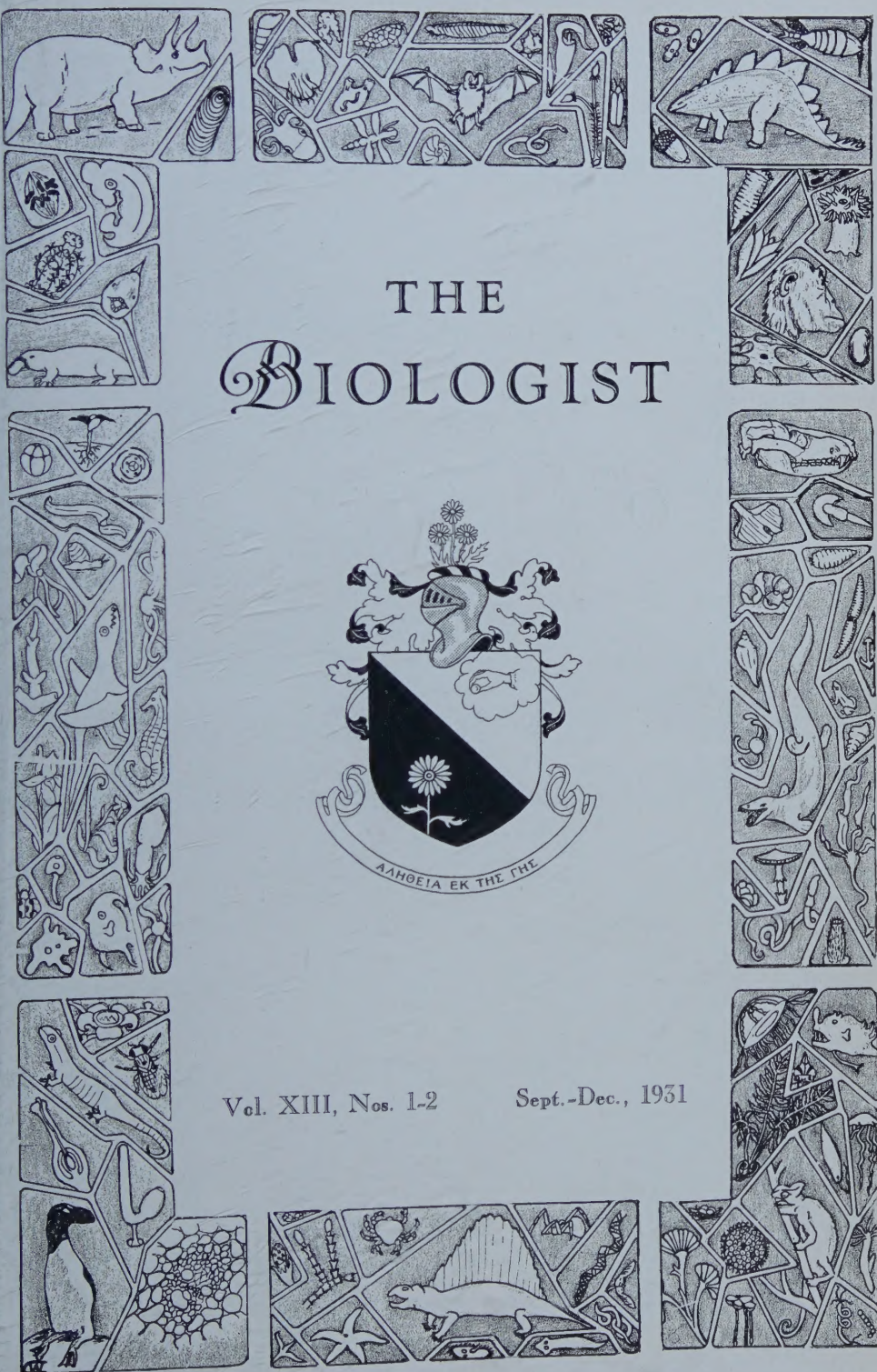




THE BIOLOGIST



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THE BIOLOGIST

OFFICIAL QUARTERLY PUBLICATION

OF THE

PHI SIGMA SOCIETY

Volume XIII Denver, Colo., Sept.-Dec., 1931 Numbers 1-2

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An Organization Devoted to the Promotion of Interest in Research
in the Biological Sciences, Founded Ohio State
University, March 17, 1915.

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THE BIOLOGIST

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NEW CHAPTERS

It is a source of pleasure and pride to the membership of Phi Sigma to welcome into the circle of our friendship Alpha Iota of Bucknell, and Alpha Kappa of Hunter. Representing as they do, institutions of whose position and scholastic standing there can be no shadow of a doubt, their accession is a matter of mutual satisfaction,—to themselves in that Phi Sigma and its thirty-two Chapters deem them worthy of our association,—and to Phi Sigma in that two strong college organizations pledge their cooperation and support to our common ideals. May both Alpha Iota and Alpha Kappa live long, increase and flourish!

YOUR EDITOR THINKS—

That the membership of Phi Sigma wants, and deserves, a representative publication.

That this is possible when each of the Chapter Editors or Secretaries does his fair share.

That each Chapter has a right to expect its Editor or Secretary to attend to this representation.

AND

That the suggestions to Chapter Secretaries contained in the May, 1931, issue of the BIOLOGIST are more vital now than they were then.

That very few of the Chapter Secretaries even saw the BIOLOGIST in question.

That the gist of the remarks made in that issue is worth repeating.

THEREFORE:

You will find articles on pages 20 and 21 of this issue which are reprinted for the information of all concerned—Chapter Editors or Secretaries, other Chapter Officers, Faculty Members, and all members in general.

Three new departments are being inaugurated in this issue: a section of general information, a list of recent publications, and a notice of honors, grants or appointments received by Phi Sigma members. They have been compiled, as is easily seen, from SCIENCE and the SCIENCE NEWS LETTER. While this may seem tripe to the older members, we venture to suspect that not even they are always aware that such a large number of people who are accomplishing things in Biology are members of Phi Sigma. Younger members may feel that this is giving the old-timers too much publicity, but we must remember that 'once Phi Sigma, always Phi Sigma' is still a valid claim, and from the achievements of our Chapter brethren we may find inspiration to greater effort in our work, and greater loyalty to Phi Sigma. For this reason each of the notes in the various sections follows the order already familiar in the list of Chapter Secretaries and in the publication of Chapter News,—the alphabetical order by chapters.

It is needless to say that correspondence relative to the policies and contents of the BIOLOGIST would be gratefully received,—but our Editorial Office is no radio station, so, although we continue to broadcast on the same number of kilocycles, a flood of "fan" mail would be too much to expect.

DID YOU KNOW THAT:

Dr. Carl G. Huber, (Beta '28 Hon.) is chairman of the Medical Fellowship Board of the National Research Council.

Dr. Frank H. Roberts, (Epsilon '23), of the Bureau of American Ethnology has been investigating pit house sites near Allantown, Arizona. He spent the summer there, and unearthed fifteen of the houses with their accumulated artifacts.

Three members of Zeta, Dr. E. B. Fred, ('26, Hon.), Dr. P. A. Tetrault, ('28), and Dr. F. L. Hisaw, ('24) are numbered among those who have given the patent rights to processes discovered by them to the University of Wisconsin. Dr. Fred's contributions, to which he has sacrificed his rights, have to do with improvements in the production of lactic and acetic acids. Dr. Tetrault has perfected acetic acid and glucose fermentations in cellulose. Dr. Hisaw's contribution is the isolation of pituitary hormones.

Dr. Hugo Albertz, (Zeta '19) is the Director of the Agricultural Experiment Station in Alaska! He resides in Sitka.

The name of Rimsky-Korsakoff is an honored one in music, but the biologist is somewhat startled to find it also among the entomologists. Vladimir Rimsky-Korsakoff, (Zeta '28) is an assistant in zoology at the University of Wisconsin. He is a close relative of the composer of "Sadko," "Sniegurotchka," and "Le Coq d'Or."

Iota Chapter contributes a lecturer to the De Lamar series of lectures being given at Johns Hopkins. Dr. Arthur I. Kendall, (Iota '27), professor of research bacteriology at Northwestern University Medical School, will discuss "Filterability of Bacteria."

Dr. Clarence T. Hurst, (Mu '24), got a fish story published in "Science!" Furthermore, it was subsequently discussed in "The Science News-Letter." Those who are interested in fish stories that *are* fish stories should refer to the former magazine, Vol. 74, No. 1925, Nov. 20, 1931, page 515.

The members of Mu Chapter are apt to turn up almost anywhere in quest of biological facts. Dr. Matilda Moldenhauer Brooks, (Mu '28), has just returned from a trip through the South Seas under a grant from the Basche Fund of the National Academy of Sciences.

Joseph Dixon, (Mu '22), is another far-traveller from our lively Californian Chapter in Berkeley. He is on the park service of the uni-

versity and has spent more than two years, and covered more than 43,000 miles, in travel through the parks of Canada and the United States. The results of these investigations are summarized in the Nov. 27th issue of "Science."

Nu Chapter was honored when one of its honorary members strode into the limelight this Fall with the announcement that the long looked-for solution to the problem of synthetic rubber had at last been found. "Time" gave the inventor of the formula, (which has become the property of the Du Ponts,) quite a lengthy writeup. The Rev. Dr. Julius A. Nieuwlands, (Nu '22), is, however, not near so "dour" as the *newsmagazine* makes him out to be. The editor of "THE BIOLOGIST" spent several delightful, although strenuous, days this summer with Dr. Nieuwlands on the eastern shore and in the pine barrens of New Jersey. As the former editor of "The Midland Naturalist," Dr. Nieuwlands is just as much at home among wild and rare American flora as he is among the wilder and rarer compounds of paraffine chemistry.

Mr. Edward H. Graham, (Alpha Epsilon, '29), is assistant curator of the Carnegie Museum, Pittsburgh. He and Mrs. Graham spent four months in northeastern Utah this summer on a botanical collecting trip.

OBITUARY

DAVID STARR JORDAN, ichthyologist of international repute, first president of Stanford University, a figure in national affairs, and honorary member Mu Chapter of Phi Sigma, died on Sept. 19, 1931 at the age of eighty years and eight months.

(The February, 1932, issue of THE BIOLOGIST will be dedicated under the auspices of Mu Chapter to the memory of its foremost honorary member.)

GEORGE ROGER ALBERTSON, formerly professor of anatomy and dean of the School of Medicine at the University of South Dakota, died at the age of eighty-five years on Nov. 3, 1931. He was elected a member of Alpha Gamma of Phi Sigma in 1929.

HONORS, GRANTS AND APPOINTMENTS

Our National President, Dr. Alexander G. Ruthven, President of the University of Michigan and honorary member of Beta Chapter since 1930, was one of the four to receive an honorary degree from Morningside College, Sioux City, Iowa, on the occasion of the inauguration of its new President. Dr. Ruthven is one of the early ('03) graduates from Morningside, was professor of zoology and curator of the museum at Michigan until his accession to his present office.

Dr. Paul A. Warren, (Beta '20), our national Vice-Chancellor, has transferred the scene of his biological activities from the class rooms and laboratories of William and Mary to Tufts College. His new address is 55 Whitney Road, Medford, Mass.

Dr. Alan A. Boyden, (Zeta '20), has just been assigned one of the National Research Council grants for his work on the serological study of the early development of the chick. Dr. Boyden is assistant professor of zoology at Rutgers.

Dr. Conrad A. Elvehjem, (Zeta '24), of the agricultural chemistry department at the University of Wisconsin has just received a grant from the American Medical Association for the study of the distribution of phosphorus in normal and rachitic blood which is in process under his direction.

Dr. John Paul Visseher, (Iota '21), has been promoted from assistant professor to professor and head of the department of biology at Western Reserve University.

Dr. Harold Kirby, Jr., (Mu '22), is interested in a study of termite-infesting protozoa. He recently received one of the National Research Council grants to further his work at the University of California at Berkeley where he is associate professor of zoology.

Psi Chapter has honored itself in electing to its honorary membership Dr. Thomas Huston McBride, President-Emeritus of the University of Iowa. Dr. McBride belongs to the fast-disappearing fine old school of scientists who laid the foundations of modern biological work in the United States. In the "American Men of Science" he is starred for his work in botany, although his interests cover a much wider field of scientific interest. Dr. MacBride is eighty three, and has been a teacher since '71. He retired in 1916 but has not lost his interest in his profession.

Dr. E. T. Bodenbergl, (Psi '28), has been appointed assistant pro-

fessor of biology at Wittenberg College. Wittenberg is the home of Xi Chapter of Beta Beta Beta.

Dr. John McAllister Kater, (Alpha Theta '30), assistant professor of zoology at Washington State College, has just received a grant from the National Research Council for his work on the functional significance of mitochondria.

PHI SIGMA COLONY AT WOODS HOLE

During the summer session of 1931 a large and representative group of Phi Sigma people spent all or part of their vacation in research at the Marine Biological Laboratory or the Bureau of Fisheries in Woods Hole, Massachusetts. Among the chapters represented at the "M. B. L." were:

Beta: L. V. Heilbrunn, '19; L. Hoadley, '19; P. Risley, '29.

Delta: P. W. Whiting, '25; A. E. Woodward, '25.

Zeta: H. W. Beams, '27; P. Henshaw, '27; A. M. Keefe, '24.

Iota: L. V. Beck, '28; J. J. Bronfenbrenner, '28; E. V. Cowdry, '28; C. Grave, '21; E. T. Kinney; A. M. Lucas, '25; M. Scott-Lucas, '28; H. M. Miller, '23; M. Sumwalt, '23.

Kappa: R. Shaw, '27.

Lambda: H. L. Eastlick, '29.

Mu: S. Gelfan, '24; J. P. Turner, '25; E. Van Slyke, '22.

Pi: H. P. Sturdivant, '25.

Alpha Epsilon: J. M. Benkert, '29; L. H. Benkert, '29; C. H. Bostian, '29; M. M. Torvik-Greb, '29.

Among the much smaller group of scientists at the United States Bureau of Fisheries Station in Woods Hole last summer the chapter representation ran as follows:

Delta: H. M. Bearse, '27.

Zeta: I. Gray, '24; F. G. Hall, '21; R. A. Nesbitt, '19.

Nu: E. M. Linton, Hon. '22.

Xi: L. G. Worley, '24.

Tau: L. C. Chesley, '29; S. R. Tipton, '30.

While there may have been some late registrants whose names have not been included in these lists, it is interesting to note the totals of chapter representation at the world's greatest biological center. Iota Chapter leads with 9 representatives; Zeta follows with 6; Alpha Epsilon has 4; Beta, Delta and Mu have 3 each; Tau has 2; and there are one each listed in the "Collecting Net" from Kappa, Lambda, Nu, Xi and Pi.

CHAPTER NEWS

NU

Nu Chapter has reorganized for the year and is "going strong." An election of officers was held early in October with the following returns:—President—James H. McDonough, 213 North Avenue, Washington, Pennsylvania; Secretary-Treasurer—Harry C. Byers, 411 Wilson Avenue, Washington, Pennsylvania.

One of the first subjects to come up for discussion this year was that of the meeting hour. It has always been difficult to get all members out to meetings in the evening because of conflicting meetings, etc., hence it was determined to introduce a remedy in the nature of an afternoon session. This was found to be very successful and therefore has been adopted. The meeting program, likewise, came up for consideration. Instead of having one or two rather lengthy reports, each member will present a brief review of current scientific news after which the meeting will be thrown open for discussion. In this way the chapter thinks it will be able to stimulate interest in the meetings, since it will make each member responsible for a share in the program.

It may be of interest to Phi Sigma members to know that Nu has with it on the faculty this year Edward M. Weyer, Jr., Ph.D. Dr. Weyer spent a year with an expedition of the Metropolitan Museum of Arts at their foundation at Luxor, Egypt. In the summer of 1928 he was with the Stoll-McCracken polar expedition under the Museum of Natural History, New York. The following year he mapped the cliff-dwellings in Arizona, New Mexico, and Colorado. Dr. Weyer is a Washington and Jefferson alumnus, having been graduated with the class of 1925.

HARRY C. BEYERS, Secretary.

PI

Pi chapter of Phi Sigma, Emory University, during the year of 1930-31 enjoyed one of the best years it has ever experienced. This year finds the members carrying on as students, teachers, and research fellows both at home and abroad.

Seven meetings were held during the year, of which two were banquets. Faculty as well as students took an active part in these meetings.

Research in Biology, as well as in related fields, was discussed. Among the most interesting topics was a report by Dr. J. L. McGhee of the Bio-Chemistry department of his research on treating anaemia with metalized milk. This research has attracted wide attention during the last year because of its humane quality.

Eight new members were taken in during the last year. The officers for the current year are: J. E. McCroan, Pres.; A. T. Miller, Vice-pres.; Miss Lucille Coleman, Sec.-Treas.

Dr. W. B. Baker, Professor of Zoology, is carrying on research this year in Berlin and other European laboratories on the Euglenoidinia. Dr. Baker is traveling on a Rosenwald Fellowship. Dr. Mary Stuart McDougall, of Agnes Scott College, is also studying in Europe. Dr. McDougall was awarded a Guggenheim Fellowship and will carry on her research on *Chilodon*.

Pi Chapter was represented at the National meeting held in Cleveland during Christmas, 1930, by Mr. J. E. McCroan.

Mr. H. P. Sturdivant, a graduate of Emory, has completed residence requirements for his Ph.D. degree at Columbia University, and is taking Dr. Baker's place in the Biology Department. He expects to receive his degree in the near future.

Keen interest is being shown in research in Pi Chapter. Eight graduate-students are working for their Master's Degree, with the main emphasis on the Protozoa. J. E. McCroan and Martin D. Young received University Fellowships for graduate work in Biology for the current year. A. T. Miller is doing research on a fellowship in the Physiology Department under the direction of Dr. G. Bachmann. Several problems that are almost ready to be published are being rounded up. We are looking forward to another big year with the gripping interest that science has on its followers.

Miss Lucille Coleman and Miss Ruth Pirkle are teaching at Agnes Scott College. Miss Katherine Roundtree is teaching at Wesleyan College. Mr. B. A. Belcher is in charge of the Government Experiment Station, at Cairo, Georgia.

Those studying at Woods Hole, Massachusetts, last summer were Miss Katherine Roundtree and Mr. H. P. Sturdivant.

M. D. YOUNG, Secretary.

XI

At the initial meeting of the Chapter, the few "old stand-bys" decided that this year should be a *real* year as far as the activities of Phi Sigma are concerned. Plans were made to arouse the interest and enthusiasm to a greater degree than formerly shown among its active members and to make Phi Sigma known on the campus as an organization that is alive and "up and doing". They began to carry out this program by having their second meeting of the year an open one, inviting all graduate and undergraduate majors in the various departments in the fields of the Biological Sciences. November 4th, they attempted something entirely new in the history of Xi Chapter—a social meeting. Of course, they have their annual banquets, but they have never had a real social meeting, and this one exceeded fondest expectations. The prime object being to have the students become better acquainted with the faculty. This meeting was held at the home of one of our graduate members. The evening was pleasantly spent in renewing old acquaintances, meeting new friends, and playing bridge. A short program was given later and refreshments were served.

At the present they are busy with the election and initiation of new members.

Omer Sperry (Xi '30) has become a member of the Botany teaching staff. He is an instructor in Botany and has charge of Dr. Pool's Flowering Plants laboratory. At the present time he is also engaged in gathering material for his master's thesis.

George Hudson, who received an M.S. at Nebraska in June '30 and who taught at Wesleyan last year, is now a member of the Zoology teaching staff. He is taking Dr. Wade's place, who is now teaching Anatomy.

Mr. Webster received his Ph.D. last June. He is at present here in the University engaged in making slides for the Histology laboratory, and is also assisting in the Histology and Embryology laboratory.

Cornelia Weaver is teaching Biology in High School in North Platte, Nebraska.

George Herzog is in charge of the Biology Storeroom in Bessey Hall here in the University.

Freida Roerden is at Johns Hopkins studying to be a medical laboratory technician.

Marion Williams is teaching in a High School in Fond du Lac, Wisconsin.

Mirinda Kreuse '31 is married and living in Fremont, Nebraska.

Robert Cottrell '31 is married and is teaching in High School in Hubbell, Nebraska.

Wilbur Ball '31 is attending the University of Nebraska School of Medicine in Omaha, Nebraska.

George Lord '31 is attending the University of Nebraska School of Medicine in Omaha, Nebraska.

Mabel Heyne '31 is working as a laboratory technician in Lincoln, Nebraska.

George Bennett is teaching in McCook College, McCook, Nebraska.

Bruno S. Klinger, faculty member of the Upsilon Chapter of Miami University in Oxford, Ohio, is but awaiting his certificate of transfer to affiliate himself with Xi Chapter. He was a "Nebraska man"—having received his B.A. in '30 from this university.

Some Class-ical Boners at the University of Nebraska

Dr. Blake contributes the following:

(By a prominent Nebraska football man) "The paramoeba go by tryl and air, till it runs into the favorable stimuli. If it goes into a body, it will go back and then turn, then go forth a gan till it mist the body."

(By another?) "The trichocysts are made of helium gas. They are very rare and hard to find."

A student was asked to define protoplasm: "Protoplasm is that substance by which an organism which has no brains thinks."

In Evolution and Genetics we find this one:

In answer to the question, "Why people are anti-evolutionists?" a student wrote the following:

"Knowing what a proud creature man is, imagine that instead of having an organization of the D. A. R. (Daughters of the Am. Revolution) we had an organization of D. A. M. (Daughters of Aboriginal Monkeys)"

(This actually happened in one of Dr. Wolcott's Zoology 4 classes) The class was studying the Reptilia, and the professor was bringing out the economic value of the class Reptilia. One student was asked: "Of what value are turtles?"

Student: "They are used to make soup."

Professor: "What kinds of turtles are so used?"

Student: "Well, mock turtles for one."

Dr. Pool, in speaking of his adversity to abbreviations of certain botanical terms such as 'monocots' and 'dicots' for the terms *monocotyledons* and *dicotyledons* (even though, he admits, they may be savers of time and energy), relates the following:

"The abbreviations, 'monocots' and 'dicots' put me in mind of a certain group of fraternity men, who in looking about for an appropriate name for the 'fraternity pup', named the innocent and unsuspecting dog, *Pseudotsuga taxifolia*. The following crop of freshmen thought that to be too much of a good thing and cut the name down to *Pseudotsuga*. The freshmen following them, not knowing the name was 'hacked off' about 50% already, called the pup *Pseudo*, which soon became *Pseudo dog-ia*!

ELLY JACOBSEN, Secretary.

ALPHA ZETA

This year's group in Alpha Zeta was started on March 14th with the initiation of sixteen new members into the society. The following officers, James Stone, President; Ruby Adams, Vice-president; Doyle Siemann, Treasurer, and Anne Croxton, Secretary, were elected and installed at the business meeting which followed a delightful banquet served in honor of the initiates.

It was the very pleasant privilege of the Chapter to present, at the last meeting of the spring term, a Phi Sigma key to Dr. Paul A. Warren, as a token of appreciation for his great interest and service to Alpha Zeta, before and after its installation, and as a parting gift as he left William and Mary College. Dr. Warren is now at Tufts' College, in Massachusetts.

At the first meeting in the Fall, plans for the year's program were made. A large percentage of the membership is enrolled in courses in individual problem work in bacteriology, entomology, and comparative anatomy, and reports on such work are to be used as program material. It is the intention of the society to use a few biological books, of well recognized value, for discussion and study in the Chapter.

ANNE CROXTON, Secretary.

HAVE YOU READ OR STUMBLED ONTO—

- "*Alaria Mustelae*, Sp. N., A Trematode Requiring Four Hosts," by Nelly J. Bosma, (Beta '29,) SCIENCE, Vol. 74, No. 1925, Nov. 20, 1931, pp. 521, 522.
- "More Data on the Lung Fluke, *Paragonimus*, in North America," by Donald J. Ameel, (Beta '29,) SCIENCE, Vol. 74, No. 1924, Nov. 13, 1931, pp. 493, 494.
- "Further Studies on Deciduous Forest Animal Communities," by Dr. Irving H. Blake, (Delta '23,) ECOLOGY, Vol. XII, No. 3, July, 1931.
- "Bottom Temperatures in Deep Lakes," by Dr. Stillman Wright, (Zeta '24,) SCIENCE, Vol. 74, No. 1921, Oct. 23, 1931, p. 413.
- "The Redia of the Gasterostomes," by Dr. Arthur E. Woodhead, (Delta '25,) SCIENCE, Vol. 74, No. 1923, Nov. 6, 1931, p. 463.
- "The Modern Nursery," by Alex Laurie, (Theta '27), and L. C. Chadwick. Macmillan, 494 pp. \$5.00. Favorably reviewed in SCIENCE NEWS LETTER, Nov. 21, 1931.
- "The Relation Between Iron, Humic Acid and Organic Matter in the Nutrition and Stimulation of Plant Growth," by Dr. Dean T. Burk, (Mu '24,) H. Lineweaver, C. K. Horner and F. E. Allison. SCIENCE, Vol. 74, No. 1925, Nov. 20, 1931, pp. 522, 524.
- "A New Micromanipulator," by Ethel McNeil, (Mu '29,) and J. E. Gullberg. SCIENCE, Vol. 74, No. 1923, Nov. 6, 1931, p. 460.
- "Heterothallism in *Puccinia Triticina*," by Dr. Ruth F. Allen, (Mu '29,) SCIENCE, Vol. 74, No. 1923, Nov. 6, 1931, pp. 462, 463.
- "Some Digenetic Trematodes of Marine Fishes of Beaufort, N. C." by Dr. H. W. Mantor, (Xi,) PARASITOLOGY, Vol. 23, No. 3, July 16, 1931.
- "Vegetative Anatomy of *Impatiens pallida*," by Ruth R. Meyer, (Xi, deceased,) and Dr. E. R. Walker, (Xi '26,) TRANSACTIONS OF THE AM. MICROSCOPICAL SOCIETY, Vol. 50, No. 1, Jan., 1931.

- "The Prairie Horned Lark," by Gayle B. Pickwell, (Xi '24,) St. Louis Academy of Science, 160 pp., 34 pl., \$2.00. Favorably reviewed in *SCIENCE NEWS LETTER*, Oct. 24, 1931.
- "Notes on Small Mammals Observed in the Tower Falls Region, Yellowstone National Park," by Dr. Otis Wade, (Xi). *THE MURRELET*, No. 3, Sept., 1931.
- "The Gametophyte of Three Species of Equisetum," by Dr. E. R. Walker, (Xi '26.) *BOTANICAL GAZETTE*, Vol. 92, No. 1, Sept. 1931.
- "Studies on Ascoidea rubescens, I. History and Development," by Dr. Leva B. Walker, (Xi '26.) *MYCOLOGIA*, Vol. 23, No. 1, Jan.-Feb., 1931.
- "The Crater Plants of Java," Translated by Dr. Howard C. Abbott, (Rho '25.) from the German of Friedrich Carl von Weber. Economy Publishers, Seattle, 1931. 160 pp. Illustrated. \$1.60.
- "Our Wilderness Neighbors," by Dorr G. Yeager, (Psi '28,) McClurg. 160 pp., \$1.25. Favorably reviewed in *SCIENCE NEWS LETTER*, Sept. 5, 1931.
- "An Adaptation of the Box Camera to Photomicrography," by C. S. Apgar, Ph.D., (Alpha Epsilon '29,) *SCIENCE*, Vol. 74, No. 1924, Nov. 13, 1931.
- "The Megagametophyte of Pinus," by Dr. W. H. Emig, (Alpha Epsilon '29,) *SCIENCE*, Vol. 74, No. 1918, October 2, 1931.

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CHAPTER MEMBERS!

If the next issues of the BIOLOGIST are to be really representative of Phi Sigma, it will be up to the membership to see that the Editor is kept supplied with *live, interesting* Chapter news. It is not enough for the Chapter officers to say, "Heck! all the Digamma Chapter members know what's going on here at *Mastodon*. Why put it in the BIOLOGIST? Nobody else will read it anyway." And in that answer we have several interesting biological reactions:

1. Retrogressive tendencies.
2. Progressive fossilization.
3. Ultimate sterility.

What to do? Several vagrant ideas have been agitating the editorial cranium. Call them "the idle thoughts of an idle fellow" if you will, but here they are:

Why not have a regular *quarterly* report from every Chapter?

Why not have short, snappy, articles on what the Biological leaders on your campus are doing?

Why not have an occasional picture of such personages, or groups of personages?

Why not have an open forum column?

Why not suggest something yourself?

Your Editor is profoundly convinced that we only need to get something original started and the members will be mobbing the Chapter secretaries to get their copies of each issue.

Let us have your personal sentiments on these points.

CHAPTER SECRETARIES!

No matter what action your Chapter may take, it ultimately depends upon you whether the BIOLOGIST is kept up to the standard of other fraternity publications. You are the mesenteries that bind the structures of the society together. Where you slack up, Phi Sigma weakens. When you cease functioning, chapter atrophy begins.

The fact that your fellow members of Phi Sigma have seen in you qualifications of a good secretary is at once a distinction and a challenge. They honor you with their confidence, they challenge you to advance the reputation and the record of their corporate activities before the Phi Sigma world.

This should stimulate your ambition. It is not merely a campus matter. It is a national affair. There is nothing in the world to stop you from attaining the reputation of the *Best Chapter Secretary* in the Society. Why not go out aggressively for this distinction? Your Editor knows he can rely on the members of the Council to second the following program:

1. The Secretary, Dr. Ortenburger, will nominate to the Phi Sigma Hall of Fame those Chapter Secretaries who are more than ordinarily efficient in keeping their records up to date in the national files.
2. Each Secretary will be given personal credit for *every* live article submitted to the BIOLOGIST.
3. The aggregate of these two types of secretarial activity will enable the Council at its annual meeting to single out for distinguished service the really exceptional secretaries.

There is still time to get this program under way. Your contacts will be two,—with the National Secretary, and with the Editor. Your responsibilities to the former are *constitutional*. Your relations with the latter are what you choose to make them. Your Editor suggests:

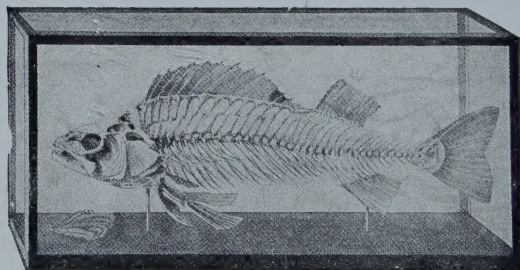
- a. Frequent reports on Chapter activities. These need not be lengthy, but they should be as definite and clear as the better articles in your campus newspaper. Cultivate scientific accuracy of expression.
- b. Interesting current events in the lives of your better known Faculty Members.
- c. Articles on notable discoveries made on your campus.
- d. Short reviews, or abstracts, of worthwhile papers published by student or faculty members of Phi Sigma.
- e. The changes among alumni members of Phi Sigma.

- f. The humor of the biological classroom. There is none more interesting or infectious. A solemnly detailed answer to the catch-question: "How does the rubber sponge reproduce?" recently upset the dignity of the Editor's classroom. Every Phi Sigma will recall similar occurrences.

A brief study of these topics will suggest many possibilities for interesting development. Sustained action along these lines cannot fail to produce results. The question is one of collaboration. Are the Chapter Secretaries willing to do so?



Life History of Chick



Skeleton of Fish in Case

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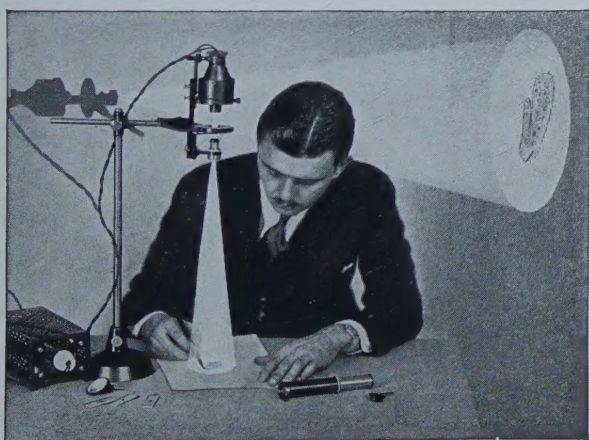
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When sending initiation fees to the National Treasurer always send the serial number of the person for whom the fee is paid.

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